Notice of Allowability	Application No.	Applicant(s)
	10/707,741	SHEN ET AL.
	Examiner	Art Unit
	Nitin Patel	2629
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>1/8/2004</u> .		
2. The allowed claim(s) is/are <u>1-9</u> .		
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	been received. been received in Application No	
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of		
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7/20/2004 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	9.	(PTO-413),

Application/Control Number: 10/707,741 Page 2

Art Unit: 2629

REASON FOR ALLOWANCE

1. Claims 1-9 are allowed.

2. The following is an examiner's statement of reason for allowance:

Ham (US 20040196229) shows apply the normal data to the liquid crystal panel at the initial half period of the frame after supplying of the modulated data to the liquid crystal panel during the later half period of the frame, thus a desired brightness level is achieved within the initial period of the frame.

Lee (US 20010038372) shows a driving method for LCD having a data gray signal modifier for receiving gray signal from a data gray signal source, and outputting modification gray signals by consideration of gray signals of present and previous frames; a data driver for changing the modification gray signals into corresponding data voltages and outputting image signals; a gate driver for sequentially supplying scanning signals and an LCD panel having a plurality of gate lines for transmitting the scanning signals; a plurality of data lines being insulted from the gate lines and crossing them for transmitting the image signals and a plurality of pixels formed by an area surrounded by gate lines and data lines and arranged as a matrix pattern.

The prior art fails to teach or suggest a method for driving a liquid crystal display (LCD) panel, the LCD panel comprising: a plurality of scan lines; a plurality of data lines; and a plurality of pixels, each pixel being connected to a corresponding scan line and a corresponding data line, and each pixel comprising a liquid crystal device and a switching device connected to the corresponding scan line, the corresponding data line, and the liquid crystal device, and the method comprising: receiving continuously a

Application/Control Number: 10/707,741

Art Unit: 2629

within every frame period according to the frame data; and applying the data impulses to the liquid crystal device of one of the pixels within one frame period via the data line connected to the pixel in order to control a transmission rate of the liquid crystal device of the pixel as claimed in claim 1.

The prior art fails to teach or suggest a driving circuit for driving an LCD panel, the LCD panel comprising: a plurality of scan lines; a plurality of data lines; and a plurality of pixels, each pixel being connected to a corresponding scan line and a corresponding data line, and each pixel comprising a liquid crystal device and a switching device connected to the corresponding scan line, the corresponding data line, and the liquid crystal device, the driving circuit comprising: a blur clear converter for receiving frame data every frame period, each frame data comprising a plurality of pixel data and each pixel data corresponding to a pixel, the blur clear converter delaying current frame data to generate delayed frame data and generating a plurality of overdriven pixel data within every frame period for each pixel; a source driver for generating a plurality of data impulses to each pixel according to the plurality of overdriven pixel data generated by the blur clear converter and applying the data impulses to the liquid crystal device of the pixel via the scan line connected to the pixel within one frame period in order to control transmission rate of the liquid crystal device; and a gate driver for applying a scan line voltage to the switch device of the pixel so that the data impulses can be applied to the liquid crystal device of the pixel as claimed in claim 7.

Art Unit: 2629

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nitin Patel whose telephone number is 571-272-7677. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin H. Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000. Mit-Patt

Nitin Patel Examiner Art Unit 2629 Application/Control Number: 10/707,741

Art Unit: 2629

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Page 5